

IFWO

RAW SEQUENCE LISTING

DATE: 08/30/2004

PATENT APPLICATION: US/10/764,799

TIME: 14:39:17

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1 <110> APPLICANT: Szostak, Jack W.
         Roberts, Richard W.
         Liu, Rihe
 4 <120> TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
         FUSIONS
 6 <130> FILE REFERENCE: 00786/350005
 7 <140> CURRENT APPLICATION NUMBER: US/10/764,799
8 <141> CURRENT FILING DATE: 2004-01-26
 9 <150> PRIOR APPLICATION NUMBER: US/09/247,190
10 <151> PRIOR FILING DATE: 1999-02-09
11 <150> PRIOR APPLICATION NUMBER: 60/035,963
12 <151> PRIOR FILING DATE: 1997-01-21
13 <150> PRIOR APPLICATION NUMBER: 60/064,491
14 <151> PRIOR FILING DATE: 1997-11-06
15 <150> PRIOR APPLICATION NUMBER: 09/007,005
16 <151> PRIOR FILING DATE: 1998-01-14
17 <160> NUMBER OF SEQ ID NOS: 38
18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 76
22 <212> TYPE: RNA
23 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Translation template
26 <400> SEQUENCE: 1
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27
                                                                                  76
         aaaaaaaaa aaaacc
28
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 10
32 <212> TYPE: PRT
33 <213> ORGANISM: Homo sapiens
34 <400> SEQUENCE: 2
         Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
35
36
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38 <210> SEQ ID NO: 3
39 <211> LENGTH: 153
40 <212> TYPE: RNA
41 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223 > OTHER INFORMATION: Translation template
44 <400> SEQUENCE: 3
         qqqacaauua cuauuuacaa uuacaauggc ugaagaacag aaacugaucu cugaagaaga
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45
         ccugcugcgu aaacgucgug aacagcugaa acacaaacug gaacagcugc guaacucuug
                                                                                . 120
46
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cgcuaaaaaa aaaaaaaaa acc
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    50 <211> LENGTH: 34
    51 <212> TYPE: PRT
    52 <213> ORGANISM: Artificial Sequence
    53 <220> FEATURE:
    54 <223> OTHER INFORMATION: Random peptide
    55 <220> FEATURE:
    56 <221> NAME/KEY: VARIANT
    57 <222> LOCATION: (1)...(27)
    58 <223> OTHER INFORMATION: Xaa is any amino acid.
    59 <220> FEATURE: .
    60 <221> NAME/KEY: VARIANT
    61 <222> LOCATION: (1)...(34)
    62 <223> OTHER INFORMATION: Xaa = Any Amino Acid
    63 <400> SEQUENCE: 4
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            1
                           5
W--> 66
            67
                       20
                                         25
    68
            Cys Ala
    70 <210> SEQ ID NO: 5
    71 <211> LENGTH: 25
    72 <212> TYPE: RNA
    73 <213> ORGANISM: Tobacco Mosaic Virus
    74 <400> SEQUENCE: 5
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            gggacaauua cuauuuacaa uuaca
    77 <210> SEQ ID NO: 6
    78 <211> LENGTH: 10
    79 <212> TYPE: RNA
    80 <213> ORGANISM: Escherichia coli
   81 <400> SEQUENCE: 6
            ggaggacgaa
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    84 <210> SEQ ID NO: 7
    85 <211> LENGTH: 34
    86 <212> TYPE: PRT
    87 <213> ORGANISM: Homo sapiens
    88 <400> SEQUENCE: 7
            Met Ala Glu Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Leu Arg Lys
    89
                                             10
    91
            Arg Arg Glu Gln Lys Leu Lys His Lys Leu Glu Gln Leu Arg Asn Ser
    92
    93
            Cys Ala
    95 <210> SEQ ID NO: 8
    96 <211> LENGTH: 29
    97 <212> TYPE: DNA
    98 <213> ORGANISM: Artificial Sequence
    99 <220> FEATURE:
    100,<223> OTHER INFORMATION: Translation template
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101	<400>	SEQUENCE: 8		
102		aaaaaaaaa aaaaaaaaaaaaaacc		29
104	<210>	SEQ ID NO: 9		
105	<211>	LENGTH: 12	•	
		TYPE: DNA		
		ORGANISM: Artificial Sequence	. 00 * *	
108	<220>	FEATURE:		
		OTHER INFORMATION: Translation template		
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111		aaaaaaaaa cc		12
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115	<212>	TYPE: DNA		
116	<213>	ORGANISM: Artificial Sequence		
		FEATURE:		
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119	<400>	SEQUENCE: 10	. \$	
120		cgcggttttt atttttttt ttcc		24
122	<210>	SEQ ID NO: 11		
		LENGTH: 42		
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125	<213>	ORGANISM: Artificial Sequence		
126	<220>	FEATURE:		
127	<223>	OTHER INFORMATION: Translation template		
128	<400>	SEQUENCE: 11	•	
129		ggaggacgaa augaaaaaaa aaaaaaaaa aaaaaaaa cc		42
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		ORGANISM: Artificial Sequence		
		FEATURE:	•	
		OTHER INFORMATION: Translation template		
146	<400>	SEQUENCE: 13		
147		ggaggacgaa augaaaaaaa aaaaaaaaa co		42
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		ORGANISM: Artificial Sequence		
		FEATURE:		
		OTHER INFORMATION: Translation template		
155	<400>	SEQUENCE: 14	•	

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	156		ggaggacgaa cugaaaaaaa aaaaaaaaa aaaacc	36
	158	<210>	SEQ ID NO: 15	
	159	<211>	LENGTH: 33	
	160	<212>	TYPE: RNA	
	161	<213>	ORGANISM: Artificial Sequence	
	162	<220>	FEATURE:	
	163	<223>	OTHER INFORMATION: Translation template	
	164	<400>	SEQUENCE: 15	
	165		ggaggacgaa cugaaaaaaa aaaaaaaaa acc	33
	167	<210>	SEQ ID NO: 16	
	168	<211>	LENGTH: 30	
	169	<212>	TYPE: RNA	
	170	<213>	ORGANISM: Artificial Sequence	
•			FEATURE:	
	172	<223>	OTHER INFORMATION: Translation template	
			SEQUENCE: 16	
	174		ggaggacgaa cugaaaaaaa aaaaaaaacc	30
	176	<210>	SEQ ID NO: 17	
			LENGTH: 159	
			TYPE: RNA	
	179	<213>	ORGANISM: Artificial Sequence	
			FEATURE:	
•			OTHER INFORMATION: Translation template	
			FEATURE:	
			NAME/KEY: misc feature	
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	184 185	<222> <223>	LOCATION: (1)(289) OTHER INFORMATION: n = A,T,C or G	
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	184 185 186 187 188 189	<222> <223> <400>	LOCATION: (1)(289) OTHER INFORMATION: n = A,T,C or G SEQUENCE: 17 gggacaauua cuauuuacaa uuacaaugnn snnsnnsnns nnsnnsnns nsnnsnnsn nsnnsn	120
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	184 185 186 187 188 189 191 192 193 194 195 196 197 199 200 201	<222><223><400> <210><211><212><213><400> <212><213><400>	LOCATION: (1)(289) OTHER INFORMATION: n = A,T,C or G SEQUENCE: 17 gggacaauua cuauuuacaa uuacaaugnn snnsnnsns nnsnnsnnsn nsnnsnnsn nnsnns	120 159
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	184 185 186 187 188 189 191 192 193 194 195 196 197 199 200 201 202 203 204	<222><223><400> <210><211><212><213><400> <212><213><400>	LOCATION: (1)(289) OTHER INFORMATION: n = A,T,C or G SEQUENCE: 17 gggacaauua cuauuuacaa uuacaaugnn snnsnnsnn nnsnnsnnsn nsnnsnnsn nsnnsn	120 159
	184 185 186 187 188 189 191 192 193 194 195 196 197 199 200 201 202 203 204 206	<222><223><400> <pre><210><211><212><212><213><400></pre> <pre><210><211><212><213><400></pre> <pre><210><210></pre> <pre><210><213><400></pre>	LOCATION: (1)(289) OTHER INFORMATION: n = A,T,C or G SEQUENCE: 17 gggacaauua cuauuuacaa uuacaaugnn snnsnnsns nnsnnsnnsn nsnnsnnsn nsnnsn	120 159 60 64
	184 185 186 187 188 189 191 192 193 194 195 196 197 199 200 201 202 203 204 206 207	<222><223><400> <pre><210><211><212><212><213><400></pre> <pre><210><211><212><211><212><211><211><212><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211><211></pre>	LOCATION: (1)(289) OTHER INFORMATION: n = A,T,C or G SEQUENCE: 17 gggacaauua cuauuuacaa uuacaaugnn snnsnnsnns nnsnnsnns nnsnnsnns nnsnns	120 159 60 64
	184 185 186 187 188 189 191 192 193 194 195 196 197 199 200 201 202 203 204 206 207 208	<222><223><400> <pre><210><211><212><213><400></pre> <pre><212><213><400></pre> <pre><210><211><212><212><213><400></pre> <pre><210><211><212><212><213><400></pre>	LOCATION: (1)(289) OTHER INFORMATION: n = A,T,C or G SEQUENCE: 17 gggacaauua cuauuuacaa uuacaaugnn snnsnnsns nnsnnsnns nnsnnsnns nnsnnsn	120 159 60 64
	184 185 186 187 188 189 191 192 193 194 195 196 197 200 201 202 203 204 206 207 208 209	<222><223><400> <pre><210><211><212><213><400></pre> <pre><212><213><400></pre> <pre><210><211><212><213><4100></pre> <pre><213><430</pre> <pre><210><213><430</pre>	LOCATION: (1)(289) OTHER INFORMATION: n = A,T,C or G SEQUENCE: 17 gggacaauua cuauuuacaa uuacaaugnn snnsnnsnns nnsnnsnns nnsnnsnns nnsnns	120 159 60 64

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	211		Met Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn	
	211 212		1 5 10	
		-2105	SEO ID NO: 21	
			LENGTH: 99	
			TYPE: DNA	
			ORGANISM: Homo sapiens	
			SEQUENCE: 21	
	219	<400>	agegeaagag ttaegeaget gtteeagttt gtgttteage tgtteaegae gtttaegeag	60
	220		caggictict toagagatoa gittoigito ticagocat	99
		-210s	SEO ID NO: 22	
			LENGTH: 21	
			TYPE: DNA	
			ORGANISM: Homo sapiens	
			SEQUENCE: 22	
		V400>		21
	227		agegeaagag ttaegeaget g SEQ ID NO: 23	
			LENGTH: 63	
			TYPE: DNA	
			ORGANISM: Homo sapiens	
			SEQUENCE: 23	
	234	<400>	taatacgact cactataggg acaattacta tttacaatta caatggctga agaacagaaa	60
	235		ctq	63
		Z210×	SEQ ID NO: 24	
			LENGTH: 33	
			TYPE: PRT	
			ORGANISM: Homo sapiens	
			SEQUENCE: 24	
	242	<400×	Met Ala Glu Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Leu Arg Lys	
	243		1 5 10 15	
	244		Arg Arg Glu Gln Leu Lys His Lys Leu Glu Gln Leu Arg Asn Ser Cys	
	245		20 25 30	
	246		Ala	
		<210>	SEQ ID NO: 25	
			LENGTH: 127	
			TYPE: DNA	
			ORGANISM: Artificial Sequence	
			FEATURE:	
			OTHER INFORMATION: Primers for RNA pool	
			OTHER INFORMATION: n = a, t, c, or g. s = g or c.	
>		<400>		
>	256		ccctgttaat gataaatgtt aatgttacnn snnsnnsnns nnsnnsnnsn nsnnsnnsnn	60
>	257		snnsnnsnns nnsnnsnnsn nsnnsnnsnn snnsnns	120
	258			127
			SEQ ID NO: 26	
			LENGTH: 42	
			TYPE: DNA ,	
			ORGANISM: Artificial Sequence	
			FEATURE:	
			OTHER INFORMATION: Primers for RNA pool	

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 08/30/2004

PATENT APPLICATION: US/10/764,799

TIME: 14:39:18

Input Set : N:\Crf3\RULE60\10764799.raw.txt Output Set: N:\CRF4\08302004\J764799.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22 Seq#:4; Xaa Pos. 23,24,25,26,27 Seq#:17; N Pos. 29,30,32,33,35,36,38,39,41,42,44,45,47,48,50,51,53,54,56,57 Seq#:17; N Pos. 59,60,62,63,65,66,68,69,71,72,74,75,77,78,80,81,83,84,86,87 Seq#:17; N Pos. 89,90,92,93,95,96,98,99,101,102,104,105,107,108 Seq#:25; N Pos. 29,30,32,33,35,36,38,39,41,42,44,45,47,48,50,51,53,54,56,57 Seq#:25; N Pos. 59,60,62,63,65,66,68,69,71,72,74,75,77,78,80,81,83,84,86,87 Seq#:25; N Pos. 89,90,92,93,95,96,98,99,101,102,104,105 Seq#:33; N Pos. 11 Seq#:34; N Pos. 23,24,26,27,29,30,32,33,35,36,38,39,41,42,44,45,47,48,50,51 Seq#:34; N Pos. 53,54,56,57,59,60,62,63,65,66,68,69,71,72,74,75,77,78,80,81 Seq#:34; N Pos. 83,84,86,87,89,90,92,93,95,96,98,99,101,102 Seq#:37; N Pos. 11 Seq#:38; Xaa Pos. 1,2,3,8,9,10

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/764,799

DATE: 08/30/2004 TIME: 14:39:18

Input Set : N:\Crf3\RULE60\10764799.raw.txt
Output Set: N:\CRF4\08302004\J764799.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seg#:4; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22

Seg#:4; Xaa Pos. 23,24,25,26,27

Seq#:17; N Pos. 29,30,32,33,35,36,38,39,41,42,44,45,47,48,50,51,53,54,56,57

Seq#:17; N Pos. 59,60,62,63,65,66,68,69,71,72,74,75,77,78,80,81,83,84,86,87

Seq#:17; N Pos. 89,90,92,93,95,96,98,99,101,102,104,105,107,108

Seq#:25; N Pos. 29,30,32,33,35,36,38,39,41,42,44,45,47,48,50,51,53,54,56,57

Seq#:25; N Pos. 59,60,62,63,65,66,68,69,71,72,74,75,77,78,80,81,83,84,86,87

Seg#:25; N Pos. 89,90,92,93,95,96,98,99,101,102,104,105

Seq#:33; N Pos. 11

Seq#:34; N Pos. 23,24,26,27,29,30,32,33,35,36,38,39,41,42,44,45,47,48,50,51

Seq#:34; N Pos. 53,54,56,57,59,60,62,63,65,66,68,69,71,72,74,75,77,78,80,81

Seq#:34; N Pos. 83,84,86,87,89,90,92,93,95,96,98,99,101,102

Seq#:37; N Pos. 11

Seq#:38; Xaa Pos. 1,2,3,8,9,10

VERIFICATION SUMMARY

DATE: 08/30/2004 TIME: 14:39:18

PATENT APPLICATION: US/10/764,799

Input Set: N:\Crf3\RULE60\10764799.raw.txt
Output Set: N:\CRF4\08302004\J764799.raw

L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0 L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16 L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0 L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:60 L:255 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25 L:256 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:25 L:256 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:25 L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0 L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:60 L:326 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:33 L:327 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:33 L:327 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:33 L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0 L:336 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:34 L:336 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:34 L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0 L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:60 L:362 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:37 L:363 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:37L:363 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#;37 L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0 L:373 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:38 L:374 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:38 L:374 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:38 L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0